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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/087,946	03/05/2002	Chung-Hsi Li	LICH3004/EM	5353	
23364	7590 07/21/2003				
	HOMAS, PLLC		EXAMINER AL NAZER, LEITH A		
625 SLATERS	OOR				
ALEXANDRI	A, VA 22314		ART UNIT	PAPER NUMBER	
•	•		2828		
			DATE MAILED: 07/21/2003	DATE MAILED: 07/21/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/087,946	LI ET AL.			
Offic Action Summary	Examiner	Art Unit			
·	Leith A Al-Nazer	2828			
The MAILING DATE of this communication app Period for Reply	ears on the c ver sheet wit	th the correspondence address ·			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a re within the statutory minimum of thirty will apply and will expire SIX (6) MON cause the application to become AB	eply be timely filed (30) days will be considered timely. THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	ation.		
1) Responsive to communication(s) filed on	<u> </u>				
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-final.				
3) Since this application is in condition for alloward closed in accordance with the practice under a Disposition of Claims			ts is		
4) Claim(s) 1-4 is/are pending in the application.		a .			
4a) Of the above claim(s) is/are withdraw	vn from consideration.	Paul OP			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-4</u> is/are rejected.		PAUL IP SUPERVISORY PATENT EXAMIN	ER		
7) Claim(s) is/are objected to.		TECHNOLOGY CENTER 2800			
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examiner					
10) The drawing(s) filed on is/are: a) accep	•				
Applicant may not request that any objection to the	- · ·				
11) The proposed drawing correction filed on If approved, corrected drawings are required in rep		sapproved by the Examiner.			
12) The oath or declaration is objected to by the Exa	•				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. 8	119(a)-(d) or (f)			
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under do d.d.d. 3	110(4) (4) 01 (1).			
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents have been received in Application No.					
3. Copies of the certified copies of the prior application from the International Bur * See the attached detailed Office action for a list of the prior action for action for a list of the prior action for a list of t	ity documents have been reau (PCT Rule 17.2(a)).	received in this National Stage			
14) Acknowledgment is made of a claim for domestic	•		ation).		
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti					
Attachment(s)	-				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Ir	iummary (PTO-413) Paper No(s) Iformal Patent Application (PTO-152)	_ ·		

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: The specification contains numerous spelling and grammatical errors.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 1 recites simplex coupling and claim 2 recites "adjusting an appropriate coupling parameter to cause the output of the receiver simplex couples to that of the transmitter".

However, neither the claims nor the specification recite how or to what extent the coupling parameter is adjusted. On page 5, lines 13-15, the specification recites, "According to our computer experiments and numerical simulations, for a suitable coupling coefficient, the chaotic sequences of the response and the drive systems will be synchronized." However, the specification fails to recite what constitutes a "suitable coupling coefficient".

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4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The wording-of elaims 1-4-is very confusing and does not incorporate proper English grammar. For example, claim 1 states a "system of transmitter" and a "system of transceiver". Phrases such as these do not illustrate proper English grammar.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Chang et al '651.

With respect to claims 1-4, Chang teaches a transmitter (column 2, lines 31-54) containing a self-pulsating laser diode being driven by an externally applied ac current containing the messages to be multiplexed; a receiver (column 2, lines 31-54) containing a self-pulsating laser diode, wherein the self-pulsating laser diode is driven by the signals output from the transmitter and the output signals of the self-pulsating laser diode of the receiver can simplex

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couple to that of the transmitter, hence forming synchronized chaotic systems; and a low-pass filter (column 24, lines 24-41).

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leith A Al-Nazer whose telephone number is 703-305-2717. The examiner can normally be reached on Monday-Friday 7:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on 703-308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7724 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3329.

PAUL IP

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

LA July 9, 2003